

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning at page 1, line 18, with the following amended paragraph:

This invention relates ~~according to claim 1~~ to a method of depositing a MCrAlY-coating.

Please replace the paragraph beginning at page 3, line 23, with the following amended paragraph:

The increase of coating thickness decreases TMF life of coatings; the problem is then to find a method that allows a deposition of thin protective coatings on complex turbine airfoils. A literature search shows that the MCrAlY overlay coatings are generally deposited by a plasma spray process (i.e. APS, VPS, LPPS or HVOF) or electron beam physical vapor deposition (EB-PVD) and sputtering. However, there are limitations of these processes[[:]]; a) it is difficult or unable to deposit a thin coating, b) poor thickness control and c) a line of sight limitation. Since airfoils contain many complex contoured ~~surface i.e. surfaces, i.e.,~~ airfoil to platform transition area, leading edge etc., the line of sight limitation ~~present~~ presents a difficulty in getting a good uniform coverage of coatings with thickness uniformity.

Please replace the paragraph beginning at page 5, line 11, with the following amended paragraph:

According to the invention, a method of ~~deposition~~ depositing a MCrAlY-coating was found as described ~~in the features of the claim 1~~ herein.

Please replace the paragraph beginning at page 5, line 14, with the following amended paragraph:

According to the present invention, individualized local or zone-coating is performed by using an ~~electroplated~~ electroplating method. It is noted that the cost of the application of a coating by a galvanic process is with advantage a third of a conventional plasma spray coating. In addition, the process of the invention has a thickness control of $\pm 20 \mu\text{m}$ of the thickness of the deposited layer, where as conventional plasma spray coating processes have thickness scatters of $\pm 75 \mu\text{m}$ or even more. Thus, a coating with a layer thickness in a range of 25-400 μm can be applied. A thinner coating ~~increase~~ increases the TMF life of the coating. The used ~~electroplated~~ electroplating process has no line of sight limitation and can coat complex contour surfaces without any difficulty.

Please replace the paragraph beginning at page 5, line 25, with the following amended paragraph:

The coating/masking step can be repeated at different local areas on the surface of the article. The different areas can be coated with different MCrAlY-coatings. The MCrAlY-coatings are ~~the~~ selected according to the required properties in ~~said~~ the areas in respect to one or a combination of oxidation, corrosion, and thermal mechanical fatigue (TMF). As mask material, wax and organic polymers are suitable.

Please replace the paragraph beginning at page 7, line 1, with the following amended paragraph:

According to the present invention, individualized local or zone-coating 6 is performed by using an ~~electroplated~~ electroplating method. With advantages, the TMF life of the electroplated coating 6 was at least 2 times higher than the life of the plasma sprayed coatings. It is noted that the cost of the application of a coating 6 by an ~~electroplated electroplating~~ process is with advantage a third of a conventional plasma spray coating. In addition, the process of the invention has a thickness control of $\pm 20 \mu\text{m}$ of the thickness of the deposited layer, where as conventional plasma spray coating processes have thickness scatters of $\pm 75 \mu\text{m}$ or even more. Thus, a coating with a layer thickness in a range of 25-400 μm can be applied. A thinner coating 6 ~~increase~~ increases the TMF life of the coating 6. The used ~~electroplated~~ electroplating process has no line of sight limitation and can coat complex contour surfaces without any difficulty. The target coatings 6 shall be selected from the MCrAlX family of coatings tailored for oxidation/corrosion or fatigue resistance according the requirements at the local zone. The coatings 6 shall be applied in steps. Initially the areas not to be coated are masked and the target area is coated by the ~~electroplated~~ electroplating method.

Please replace the paragraph beginning at page 7, line 18, with the following amended paragraph:

Another previously masked area is coated, whereas the other areas ~~is~~ are previously masked. To be able to coat, the mask from the target area is removed and at the same time ~~mask~~ the previously coated area is masked. The process of

masking and coating of target areas ~~are~~ is repeated as often as necessary. At completion, the surface will appear as if decorated with a series of 'patch coatings' each distinct from the other.

Please replace the paragraph beginning at page 7, line 25, with the following amended paragraph:

The different areas can be coated with different MCrAlY-coatings 6. The MCrAlY-coatings are ~~the~~ selected according to the required properties in ~~said~~ the areas in respect to one or a combination of oxidation, corrosion, and thermal mechanical fatigue (TMF). One example of localized coating could be the TMF resistant coating on the platform/airfoil transition area of gas turbine blades and vanes and a highly oxidation resistant coating provided on the upper airfoil - the tip section.